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PPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/635,331	08/06/2003		Wing K. Luk	YOR920030120US1	8119
24299	7590	03/22/2005		EXAMINER	
George Sai- 145 Fernwoo			LAM, DAVID		
Greenwich, RI 02818		3		ART UNIT	PAPER NUMBER
·				2827	
				DATE MAILED: 03/22/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	10/635,331	LUK ET AL.						
Office Action Summary	Examiner	Art Unit	_					
	David Lam	2827						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOTHE MAILING DATE OF THIS COMMUNION. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statent or period for reply is specified above, the maximum statent or period for reply within the set or extended period for reply any reply received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may unication.) days, a reply within the statutory minimum of tutory period will apply and will expire SIX (6) M will, by statute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed	d on							
2a) ☐ This action is FINAL . 2	b)⊠ This action is non-final.							
• —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-13 and 18-23 is/are allowed. 6) Claim(s) 14 and 16 is/are rejected. 7) Claim(s) 15 and 17 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Application Papers								
9)☐ The specification is objected to by the	Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any object	= : :							
Replacement drawing sheet(s) including 11) The oath or declaration is objected to		ng(s) is objected to. See 37 CFR 1.121(d). ned Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (P' 3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 4/04.	TO-948) Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152) 						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 14, 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Arimoto (6,333,889).

Regarding to claims 14, 16, Arimoto discloses a wide bandwidth DRAM memory comprising: simultaneously operable connection path between a string of memory cells and corresponding input/output terminals (2), wherein the string of memory cells are essentially all the memory cells which are attached to the same word line, wherein the DRAM memory has a plurality of word lines (WL) and a plurality of memory cells; and a single ended data line structure. See *Figs. 1, 12, 16-17; Cols. 8-9, 17, 20-22*.

Allowable Subject Matter

2. Claims 15, 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach the above noted memory device and further comprises a plurality of regeneration circuit, among others claimed in claim 15, for receiving second voltage swing and outputting a first voltage swing, wherein the first voltage swing is determined by a first voltage differential.

3. The following is an examiner's statement of reasons for allowance: Claims 1-13, 18-23 are allowable over the prior art of record because none of the prior art whether taken singularly or in combination, especially when these limitations are considered within the specific combination claimed, to teach: an integrated circuit/system comprising a plurality of regeneration circuit, among others as claimed in independent claims 1, 18, for receiving second voltage swing and outputting a first voltage swing, wherein the first voltage swing is determined by a first voltage differential. Method for conserving power comprising step of driving signal lines in the integrated circuit with a reduced voltage swing, wherein the reduced voltage swing is determined by the reduced voltage differential, and among others as claimed in independent claim 21.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Ma et al. (6,075,741) discloses a multiple staged power up of integrated circuit.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lam whose telephone number is 571-272-1782. The examiner can normally be reached on 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai Ho can be reached on 571-272-1777. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Lam

March 17, 2005

MAND CHANGE